BRUHATH BANGALORE MAHANAGARA PALIKE

SCHEDULE - B

NAME OF WORK: DETAILED ESTIMATE FOR THE WORK OFDRILLING OF BOREWELLS ERECTION OF PUMP MOTOR IN TATA NAGARA WARD NO.8 KODIGEHALLI , KODIGEHALLI SUB DIVISION.

Sl.no	Qty	Description	Unit	Sanctioned rate (in Rs)	Amount
1	1.00	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting gvenner or schiberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the licating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tapped, probate yield and other information required including transportation and accessories to work site, engaging technical personal and labour required etc.	N0	1957.00	1957.00
2		Sinking borewell of 165mm dia clear using super fast Hydrolic rig of capacity 250 PSIG na above 900 CFM and abaove in all strats including over burden upto 20M. fixing of casing pipes collars and cap with necessary, cutting and threading including transportation of rig and supporting vehicles, crew charges and cost of consumbables etclm complete including yield testing at the final depth with a minimum work in on compression for an hour (excluding cost of casing pipes collars cap etc.,			
a	50.00	0.00 to 50.00 mtrs	Rmtr	295.61	14780.50
b	50.00	50.00 to 100.00 mtr	Rmtr	390.37	19518.50
c	50.00	100.00 to 150.00 mtr	Rmtr	434.66	21733.00
d	50.00	150.00 to 200.00 mtr	Rmtr	477.92	23896.00
e	50.00	200.00 to 250.00 mtr	Rmtr	528.39	26419.50
Additional Rate item no.9.1 is allowed for drilling in over burden and fixing casing pipes beyond 20 M (for fixinig casing pipes only (a) Above 20M upto 30 M -15% (b) Above 30M -30% Ref PRED SR 2011-12 (Page no.48,)Note-1					
a	10.00	20.00 to 30.00 mtr	Rmtr	44.34	443.40
	20.00	above 30.00 mtr	Rmtr	88.68	1773.60
b	11.00	Above 30.00 mtr	Rmtr	117.11	1288.21

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3	61.00	Supplying of ISI Mark 175 mm nominal bore, Plain end steel casing pipe - grade of steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments. electric resistance welded steel tube material and confirming to IS 1387/1993 and cmanufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mtrs. Both ends threaded confirming to IS 554/1985. one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking. weighing 25.10kg/mtr. (Inclusive of all taxes and durties) Prices include collar-medium duty.	Rmtr	402.75	24567.75
4	245.00	Providing and fixing in trenches galvanised / mild steel tubes (Medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing specification	Rmtr	298.92	73235.40
5	10.00	Providing 175mm dia MS collar	Each	150.00	1500.00
6	1.00	Providing 175mm dia MS cap	Each	100.00	100.00
7	490.00	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts	N0	151.00	73990.00
8	1.00	Supply and deliveryat site brand new Texmo/Innoval/Lubi/Sabar/Atalanta/Calamal / Waterman/ Radha make suitable vertical installation in 150mm dia. Borewells comprisingof single stage or multistage CF pump close coupledby means of stainless steel coupling to suitable speed totally enclosed and filled with pure drinking water (wet type) squirrel cage submercible induction mortor suitable for operation of 3ph, 50Hz, 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard non return valve etc., complete the pump and motor shall form an integral unit with all the required fittings 15HP 30stage	N0	52000.00	52000.00
9	2.00	Supplying and delivery at site brand new star/Essen/Lotus/Sun shine/ Adharsh/GK controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvrs ventilators shall be provided the combined energy meter cum control panel board units suitable for operation on 3ph, 50hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above components panel board for suitable pumpset with star delta starter out door type 10hp to 15hp	Each	10000.00	20000.00
10	2.00	Supply and fixing 500x500x65mm polished wood board made of not less than 15mm thick infront plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts	Each	275.00	550.00
11	24.00	Supply 1.1 KV Class UG cable from nearset BESCOM pole to panel board including earth work and road restoratio 4 core 16sqmm	Mtr	150.00	3600.00

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12	24.00	Labour charges for laying of 1.1 KV class UG cable when supplied by agencies in existing trench GI pipe / stoneware pipe / on wall / on pole as required	Mtr	5.00	120.00
13	4.00	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. Etc., complete	Each	219.00	876.00
14	4.00	Supplying and fixing 50mm non-return valve of vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	N0	1530.00	6120.00
15	1.00	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required	Each	1075.00	1075.00
16	1.80	Cutting of road surface for pipe line trenches and disposing of the excavated stuff as directed invluding barricding, danger lighting etc., in the cement concrete road	cum	497.14	894.85
17	3.60	Earthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches , stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifacations	cum	198.22	713.59
18	40.00	Providing and installing at site of work P.V.C pipes including cost of pipes and specials and labour, including lowering into trenches, laying true to line, lavel and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15 cms with gravel or selected earth available from the excavation etc., complete.	Rmtr	117.00	4680.00
19	3.60	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. including cost of all labour complete as per specifications	cum	53.00	190.80
20	1.95	Disposing of earth around to the final place of disposal with all lead and lift and as per directed by the engineer in charge of the work. Lead upto 15.00 KM	cum	106.85	208.36

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